

# ABSTRACT

An R-Fe-B base sintered magnet having a composition of  
5 12-17 at% of R (wherein R stands for at least two of yttrium  
and rare earth elements and essentially contains Nd and Pr),  
0.1-3 at% of Si, 5-5.9 at% of B, 0-10 at% of Co, and the  
balance of Fe, containing a  $R_2(Fe,(Co),Si)_{14}B$  intermetallic  
compound primary phase and at least 1% by volume of an  
10 R-Fe(Co)-Si grain boundary phase, and being free of a B-rich  
phase exhibits a coercive force of at least 10 kOe despite a  
reduced content of heavy rare earth.